# P-660W-Tx v2

*ADSL Router over POTS/ISDN*

## Quick Start Guide

Version 3.40
03/2008
Edition 1

| DEFAULT LOGIN | |
|---|---|
| **IP Address** | **http://192.168.1.1** |
| **Password** | **1234** |

**ZyXEL**

# Overview

The P-660W-Tx v2 lets you:

- Set up a wireless network with IEEE 802.1b and IEEE 802.1g capability
- Set up a DSL connection to the Internet without the need for a modem
- Set up advanced router features, including a firewall and wireless security.

Follow these steps to set up a DSL connection to the Internet and a wireless network using the P-660W-Tx v2.

See the User's Guide on the included CD for details on all of the P-660W-Tx v2's features. Insert the CD into your CD-ROM, if a screen does not pop-up, use Windows Explorer (My Computer) to go to the CD-ROM (commonly drive D) and browse for the User's Guide.

# 1 Set Up Your Hardware
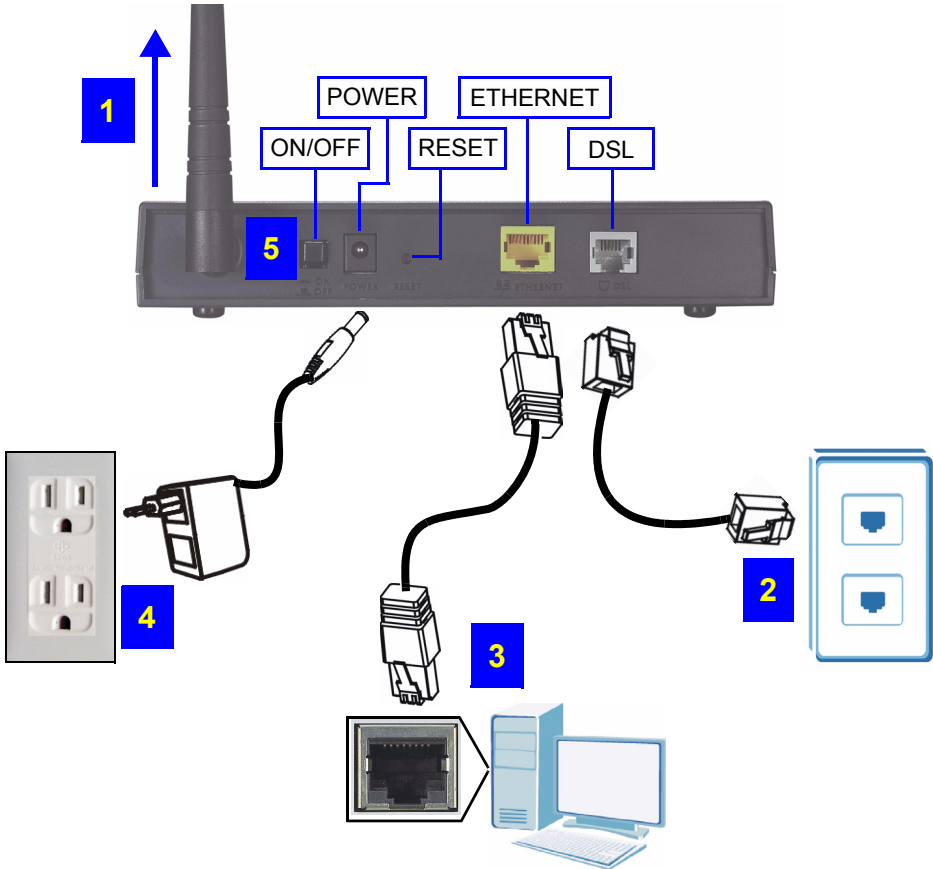


1 **Antenna:** Point the antenna upwards (perpendicular to the ground).

2 **DSL**: Connect the P-660W-Tx v2 to a telephone jack using a telephone wire.

3 **ETHERNET**: Use an Ethernet cable to connect the Ethernet port on your computer to the Ethernet port on the P-660W-Tx v2.

4 **POWER**: Use the included power adaptor to connect the **POWER** socket to an appropriate power source (see the User's Guide for power adaptors specifications by region).

5 **ON/OFF**: Push the power switch to the **ON** position to turn on the P-660W-Tx v2.

## Look at the LEDs (lights)

The **DSL** light blinks and then stays on when a DSL connection is detected. The **ETHERNET** light turns on if your computer is properly connected to the P-660W-Tx v2 using the Ethernet cable. When you connect the power, the **POWER** light blinks and stays on once the device is ready.
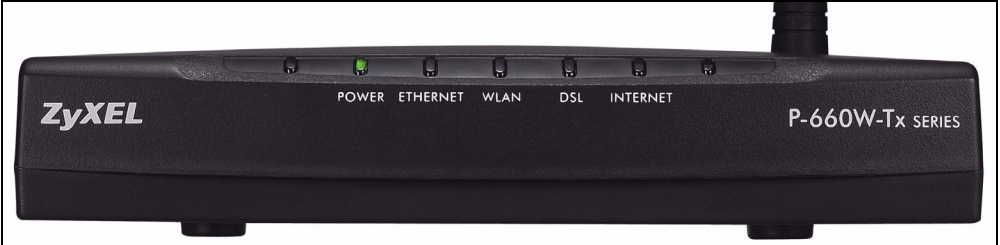


**?** Check your connections if the POWER or ETHERNET light does not turn on. If this doesn't help, disconnect the P-660W-Tx v2 from its power source, wait for a few seconds and turn it back on.

# 2 Configure the P-660W-Tx v2 for Internet Access

You may configure the P-660W-Tx v2 for Internet access in one of these ways:

- Use Zero Configuration to set up your Internet connection automatically in section 2.1.
- If Zero Configuration does not detect your Internet access settings, use the Connection Wizard to configure Internet access settings in section 2.2.

## 2.1 Set up Internet Access with Zero Configuration

Launch your web browser and navigate to any website (for example, www.zyxel.com). The P-660W-Tx v2 automatically detects and configures your Internet connection. This may take about two minutes.

If you have a **PPPoE** or **PPPoA** connection, a screen displays prompting you to enter your Internet account information. Enter the user name, password and/or service name exactly as provided. Click **Apply**.

## 2.2 Set up Internet Access with the Connection Wizard

If Zero Configuration does not detect your Internet access settings, use the **Connection Wizard** to set up Internet Access. Access the P-660W-Tx v2's web configurator so you can use the Wizard. (The web configurator is the P-660W-Tx v2's software interface that lets you configure settings on the P-660W-Tx v2.)

### 2.2.1 Access the Connection Wizard

**1** Launch a web browser such as Internet Explorer. Enter **http://192.168.1.1** and press [ENTER].
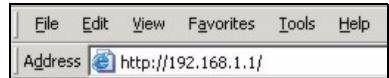
**2** The **Password** window displays. Enter the password (**1234** is the default) and click **Login**.
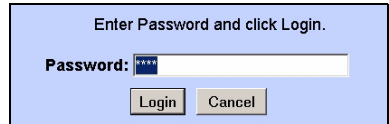
**?** If the login screen does not display, check your cable connections. If that doesn't help, check your web browser's security settings. See the appendix in the User's Guide for more suggestions. If you've forgotten the password, see the User's Guide for instructions on using the **RESET** button.

**3** Change the password and click **Apply**.
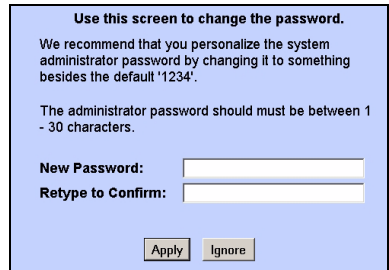
**4** In the **Site Map** screen, click **Connection Setup**.

## 2.2.2 Configure Internet Access and Local Network Settings with the Connection Wizard

Use the **Connection Wizard** to set up access to the Internet through your ISP. These are your WAN (wide area network) settings. Then use the **Connection Wizard** to set up the connection from your computer to the P-660W-Tx v2. These are your LAN (local area network) settings.
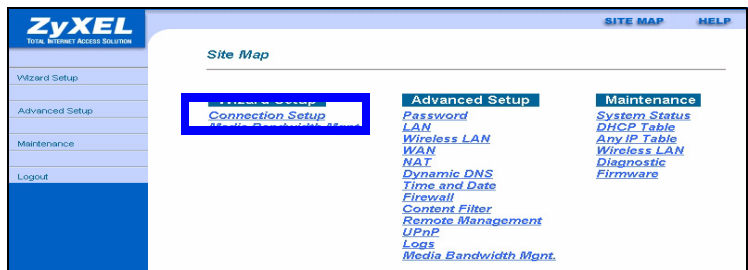
> Enter the Internet access information given to you by your ISP exactly in each wizard screen. Follow the instructions in this guide or leave the field blank or at its default setting. Click **Next** to continue or click **Back** to return to the previous screen. Screen information is not saved when you click **Back**. If your connection times out, log back in and restart the Wizard.

1 From the **Mode** drop-down list box, select **Routing** if your P-660W-Tx v2 is a gateway between the Internet and your local network and you need routing features such as NAT (Network Address Translation) or a firewall. Select **Bridge** if your P-660W-Tx v2 is on a private network behind a router, and you do not need routing features such as NAT or a firewall.

2 Configure your **Encapsulation**, **Multiplex** and other settings based on the settings your ISP provides you.

### Bridge

- If you selected **Bridge** and **RFC 1483** in the previous screen, go to step 3 in this section.

- If you selected **Bridge** in step 1 of this section and **PPPoA**, the following screen appears. Type your **User Name** and **Password**. Select **Nailed-Up Connection** to set a permanent connection which automatically reconnects on disconnection. Select **Connect on Demand** to allow connection only when required and with an idle time-out period (in seconds) in the **Max. Idle Timeout** field. Click **Next**.

**3** Check your WAN and LAN settings in the screen that appears. Click **Save Settings**. Go to step 9 of this section.

Connection Setup- ISP Parameters for Internet Access

**WAN Information:**
Mode: **Bridge**
Encapsulation: **RFC 1483**
Multiplexing: **LLC**
VPI/VCI: **0/33**

**LAN Information:**
IP Address: **192.168.1.1**
IP Mask: **255.255.255.0**
DHCP: **OFF**

Save Settings

**Routing**

- If you selected **Routing** in step 1 of this section, one of the following four screens appears depending on the **Encapsulation** you chose in step 1 of this section.

- **PPPoA**, **PPPoE**: Type your **User Name** and **Password**.

- **PPPoE**, **PPPoA**, **ENET**: Select **Obtain an IP Address Automatically** if your ISP (Internet Service Provider) assigns IP addresses automatically. Otherwise, select **Static IP Address** if your ISP has assigned you an IP address. Check with your ISP if you are unsure of which setting to choose.

- **PPPoA**, **PPPoE**: Select **Nailed-Up Connection** to set a permanent connection which automatically reconnects on disconnection. Select **Connect on Demand** to allow connection only when required and with an idle time-out period (in seconds) in the **Max. Idle Timeout** field.

Connection Setup- ISP Parameters for Internet Access

IP Address    0.0.0.0

Network Address Translation
SUA Only

**RFC 1483**    Back    Next

Connection Setup- ISP Parameters for Internet Access

**IP Address**
○ Obtain an IP Address Automatically
● Static IP Address
IP Address    0.0.0.0
Subnet Mask    0.0.0.0
ENET ENCAP Gateway    0.0.0.0

Network Address Translation
SUA Only

**ENET**    Back    Next

Connection Setup- ISP Parameters for Internet Access

User Name
Password

**IP Address**
○ Obtain an IP Address Automatically
● Static IP Address
0.0.0.0

**Connection**
● Connect on Demand: Max Idle Timeout 0 sec
○ Nailed-Up Connection

Network Address Translation
SUA Only

**PPPoA**    Back    Next

Connection Setup- ISP Parameters for Internet Access

Service Name
User Name
Password

**IP Address**
○ Obtain an IP Address Automatically
● Static IP Address
0.0.0.0

**Connection**
● Connect on Demand: Max Idle Timeout 0 sec
○ Nailed-Up Connection

Network Address Translation
SUA Only

**PPPoE**    Back    Next

- **PPPoE**, **PPPoA**, **ENET, RFC 1483**: Select **SUA Only** for shared Internet access with a single ISP. This is recommended. Otherwise, select **None** if accessing the Internet on a public IP address, or select **Full Feature** for advanced NAT features. See your User's Guide for more details.

**4** Click **Next**.

**5** Check your WAN and LAN settings in the screen that appears. Click **Change LAN Configuration** to configure the P-660W-Tx v2 for your local area network (LAN) and go to step 6 of this section.

• Otherwise click **Save Settings** and go to step 9 of this section.

**Wizard Setup - ISP Parameters for Internet Access**

**WAN Information:**
Mode: **Routing**
Encapsulation: **PPPoE**
Mutiplexing: **LLC**
VPI/VCI: **8/35**
Service Name:
User Name: **user@isp.ch**
Password: ********
IP Address: **Obtain an IP Address Automatically**
NAT: **SUA Only**
Connect on Demand: **Max Idle Timeout 1500 Secs.**

**LAN Information:**
IP Address: **192.168.1.1**
IP Mask: **255.255.255.0**
DHCP: **ON**
Client IP Pool Stating Address: **192.168.1.33**
Size of Client IP Pool: **32**

Change LAN Configuration

Save Settings

**6** If you clicked **Change LAN Configuration**, the following screen appears.

• Type the IP address and subnet mask for the P-660W-Tx v2 on your LAN.

• Disable the **DHCP Server** if another device on your LAN, such as a router, already allocates IP addresses, or devices on your LAN have static IP addresses. Go to step 8 of this section.

Otherwise, if the P-660W-Tx v2 is to allocate IP addresses on your LAN, enable the **DHCP Server**. Computers on your LAN will then need to be set to receive an IP address automatically. See the User's Guide for more information on configuring this.

**Connection Setup- ISP Parameters for Internet Access**

| | |
|---|---|
| LAN IP Address | 192.168.1.1 |
| LAN Subnet Mask | 255.255.255.0 |

**DHCP**

| | |
|---|---|
| DHCP Server | ON ▾ |
| Client IP Pool Starting Address | 192.168.1.33 |
| Size of Client IP Pool | 32 |
| Primary DNS Server | 0.0.0.0 |
| Secondary DNS Server | 0.0.0.0 |

Back    Finish

**7** If you enable the **DHCP Server**, ensure the **Client IP Pool Starting Address** is on the same domain as your **LAN IP Address** (that is, the first three parts of the IP addresses are the same). If you were given DNS Server settings, type them here. Otherwise leave the default settings.

**8** Click **Finish** to save your settings and go to step 9 of this section. Otherwise, click **Back** to check your settings as in step 5 of this section.

✎ If you change the P-660W-Tx v2's LAN IP address, you must use the new IP address if you want to access the web configurator again.

**9** The P-660W-Tx v2 automatically tests the connection to the computer(s) connected to the LAN port. To test the connection from the P-660W-Tx v2 to the ISP, click **Start Diagnose**. Otherwise click **Return to Main Menu** to go back to the main screen.

**?** If the P-660W-Tx v2 cannot connect to the Internet, check the Internet connection settings in the wizard. Make sure you entered the correct user name and password if you are using **PPPoE** or **PPPoA**.
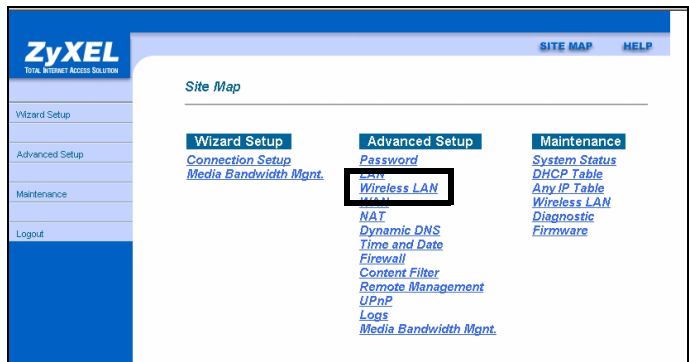
**10** Congratulations. Open a web browser, such as Internet Explorer, to visit your favorite website.

# 3 Set up a Wireless Network

Follow these steps to set up a wireless network.

## 3.1 Configure Wireless Settings on Your P-660W-Tx v2

**1** Click the **Wireless LAN** link under **Advanced Setup**.

**2** Click **Wireless**.

**Wireless LAN**

**Wireless**
    Use this screen to configure the wireless LAN parameters.

**MAC Filter**
    Use this screen to configure the MAC address filter for wireless LAN security.

**3** Select **Enable Wireless LAN**.

**4** **ESSID**: Type the name (up to 32 characters) you want to give to your wireless network.

**5** **Channel ID**: Change the **Channel ID** from the default if interference is a problem on your network.

**6** **Security Mode**: Select the strongest **Security Mode** that devices on your wireless network support. **WPA2-PSK** is a good choice for a home network. In this screen, select **WPA Compatible** and type a **Pre-Shared Key** using a combination of letters and numbers (8~63 characters long). Then click **Apply** to save your settings.

**Wireless LAN- Wireless**

☑ Enable Wireless LAN
☐ Block traffic between WLAN and LAN

| | |
|---|---|
| ESSID | SecureWirelessNetwork |
| Hide ESSID | No ▾ |
| Channel ID | Channel11 2462MHz ▾ |
| ☐ RTS/CTS Threshold | 2346 (0 ~ 2346) |
| ☐ Fragmentation Threshold | 2346 (256 ~ 2346) |
| Security Mode | WPA2-PSK ▾ |
| ☐ WPA Compatible | |
| Pre-Shared Key | ThisismyPre-SharedKey |
| ReAuthentication Timer | 1800 (In Seconds) |
| Idle Timeout | 3600 (In Seconds) |
| Group Key Update Timer | 1800 (In Seconds) |

Back   Apply   Cancel

**Write down the Pre-Shared Key!**

✎ Write down the **Pre-Shared Key** and **ESSID** as you will need to use them again when you connect your computer to the P-660W-Tx v2.

## 3.2 Connect to the P-660W-Tx v2 Wirelessly From Your Computer

You can now connect to your P-660W-Tx v2 via a wireless connection, and access the Internet. You need the **ESSID** and also the **Pre-Shared Key** if you set up security in the previous section. The connection procedure is shown here (using Windows XP as an example).

**1** Right-click the wireless adapter icon which appears in the bottom right of your computer screen. Click **View Available Wireless Networks**.

3:11 PM

**2** Select the **ESSID** name you gave the P-
660W-Tx v2 and click **Connect**. (The ESSID
used here is an example.)
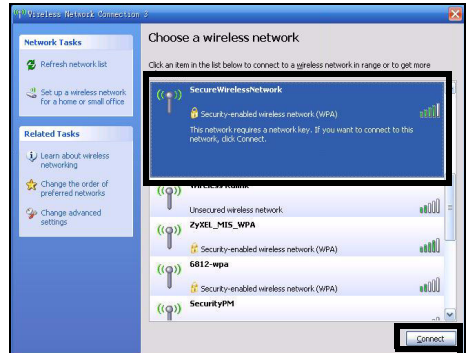
**3** If you have set up wireless security, you are
prompted to enter a password. Enter the **Pre-
Shared Key** you set up in the previous section and
click **Connect**.
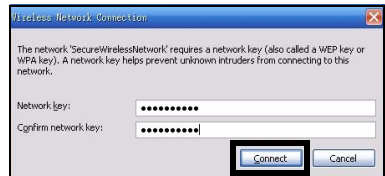
**4** If you connected successfully, a message similar to the following
displays.

**?** If you cannot connect wirelessly to the P-660W-Tx v2, check that you are
using the same ESSID and security key on both the P-660W-Tx v2 and
your wireless client.

**5** Congratulations! That completes the setup procedure for your P-660W-Tx v2. Open a
web browser, such as Internet Explorer, to visit your favorite website.

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**Procedure to View a Product's Certification(s)**

**1** Go to www.zyxel.com.

**2** Select your product from the drop-down list box on the ZyXEL home
page to go to that product's page.

**3** Select the certification you wish to view from this page.

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